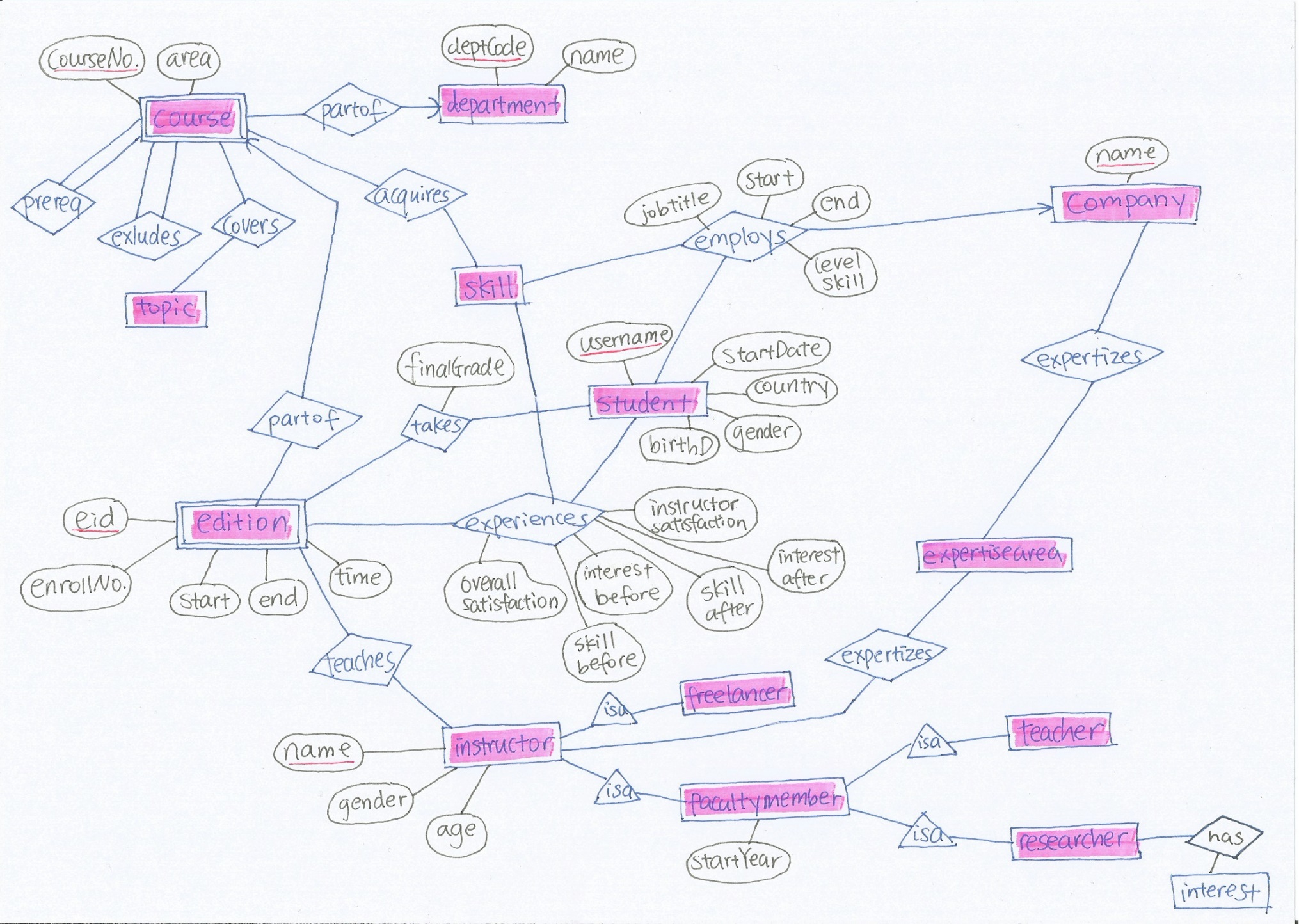
****

**CEA Database Schema**

**Department**(dept\_code, name)

**Course**(dept\_code, courseno, area)

Course.dept\_code  Department.dept\_code

**Covers**(dept\_code, courseno, topic)

(Covers.depCode, Covers.courseNo)  (Course.depCode, Course.courseNo)

**Acquires**(dept\_code, courseno, skill)

(Acquires.depCode, Acquires.courseNo)  (Course.depCode, Course.courseNo)

**Prereq**(dept\_code, courseno, dept\_code\_exc, courseno\_exc)

(Prereq.dept\_code, Prereq.courseno)  (Course.dept\_code, Course.courseno)

(Prereq.dept\_code\_exc, Prereq.courseno\_exc)  (Course.dept\_code, Course.courseno)

**Excludes**(dept\_code, courseno, dept\_code\_exc, courseno\_exc)

(Excludes.dept\_code, Prereq.courseno)  (Course.dept\_code, Course.courseno)

(Excludes.dept\_code\_exc, Excludes.courseno\_exc)  (Course.dept\_code, Course.courseno)

**Edition**(eid, dept\_code, courseno, start\_date, end\_date, offer\_time, enrollno)

(Edition.dept\_code, Edition.courseno)  (Course.dept\_code, Course.courseno)

//\*\*\*\*\*\*\* eid here is the primary key for course editions that we added here because we need to refer to this table a lot, eid can make it easier to refer to rather than typing all (dept\_code, courseno, start\_date, end\_date, offer\_time). Type of eid is formed by its *dept\_code+courseno+season(F/S/Y based on start and end date)+offer\_time(M/D/E based on time of the day)*: like CSC343FM/CSC309YE and it is unique. \*\*\*\*\*\*\*\*//

**Student**(sid, birth\_month, birth\_year, gender, country, start\_month, start\_year)

**Takes**(sid, eid, final\_grade)

Takes.sid ⊆ Student.sid

Takes.eid ⊆ Edition.eid

**Experiences**(sid, eid, skill, skillBefore, skillAfter, overallSat, instrSat,

InterestBefore, InterestAfter)

(Experiences.sid, Experiences.eid) ⊆ (Takes.sid, Takes.eid)

**Instructor**(name, gender, age)

**Expertises\_instr**(instr\_name, expertise\_area)

Expertises\_instr.instrName ⊆ Instructor.name

**Freelancer**(name)

Freelancer.name ⊆ Instructor.name

**FacultyMember**(name, start\_year)

FacultyMember.name ⊆ Instructor.name

**FacultyTeacher**(name)

[FacultyTeacher.name ⊆ Instructor.name]

**FacultyResearcher**(name)

FacultyResearcher.name ⊆ Instructor.name

**InterestedIn**(researcher\_name, researcher\_int)

InterestedIn.researcher\_name ⊆ FacultyResearcher.name

**Teaches**(instr\_name, eid)

Teaches.instr\_name ⊆ Instructor.name

Teaches.eid ⊆ Edition.eid

**Employs**(company\_name, sid, jobtitle, start\_date, end\_date, skill, sklevel)

Employs.sid ⊆ Student.sid

**Expertises\_comp**(company\_name, expertise\_area)